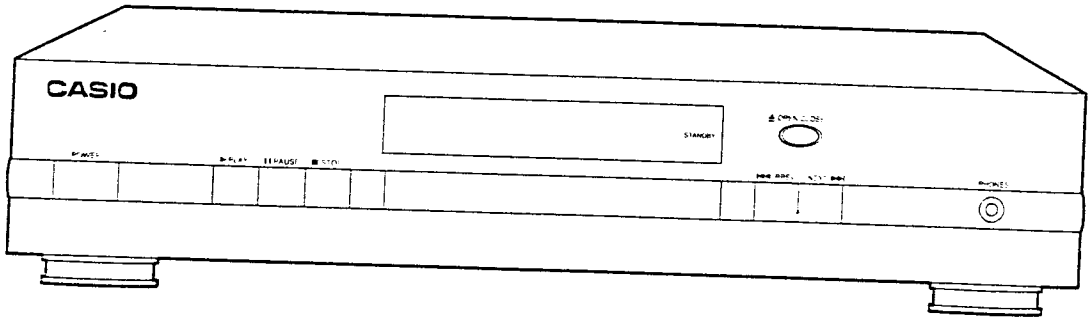
CASIO®

DVD VIDEO PLAYER
REPRODUCTOR DE DVD
DVD PLAYER
DVD 數碼影碟機

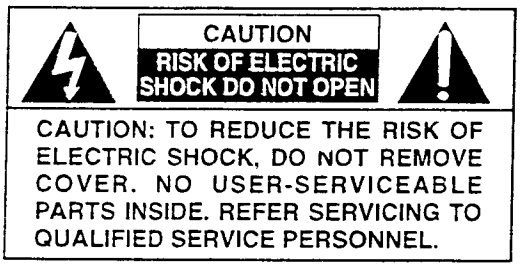
VK-500

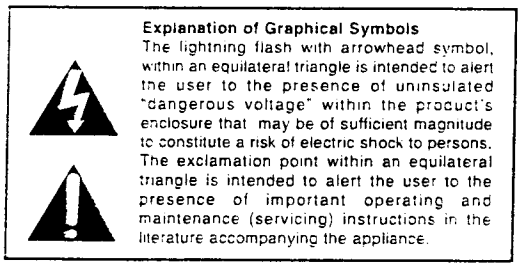


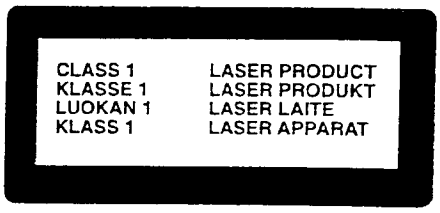
USER'S GUIDE
GUÍA DEL USUARIO
GUIA DO USUÁRIO
用戶說明書

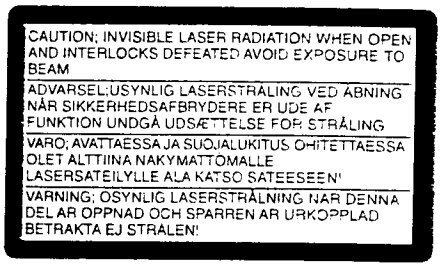
PRECAUTIONS

WARNING:	TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.
ADVERTENCIA:	PARA REDUCIR EL RIESGO DE INCENDIOS O DESCARGAS ELECTRICAS, NO EXPONGA ESTE APARATO A LA LLUVIA NI A LA HUMEDAD.
ADVERTÊNCIA:	PARA REDUZIR O RISCO DE FOGO E CHOQUE ELÉTRICO, NÃO EXPONHA ESTE APARELHO À CHUVA OU UMIDADE.
警告：為避免火災和電震的危險，切勿讓本機淋雨或受潮。	


CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.


Explanation of Graphical Symbols
The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



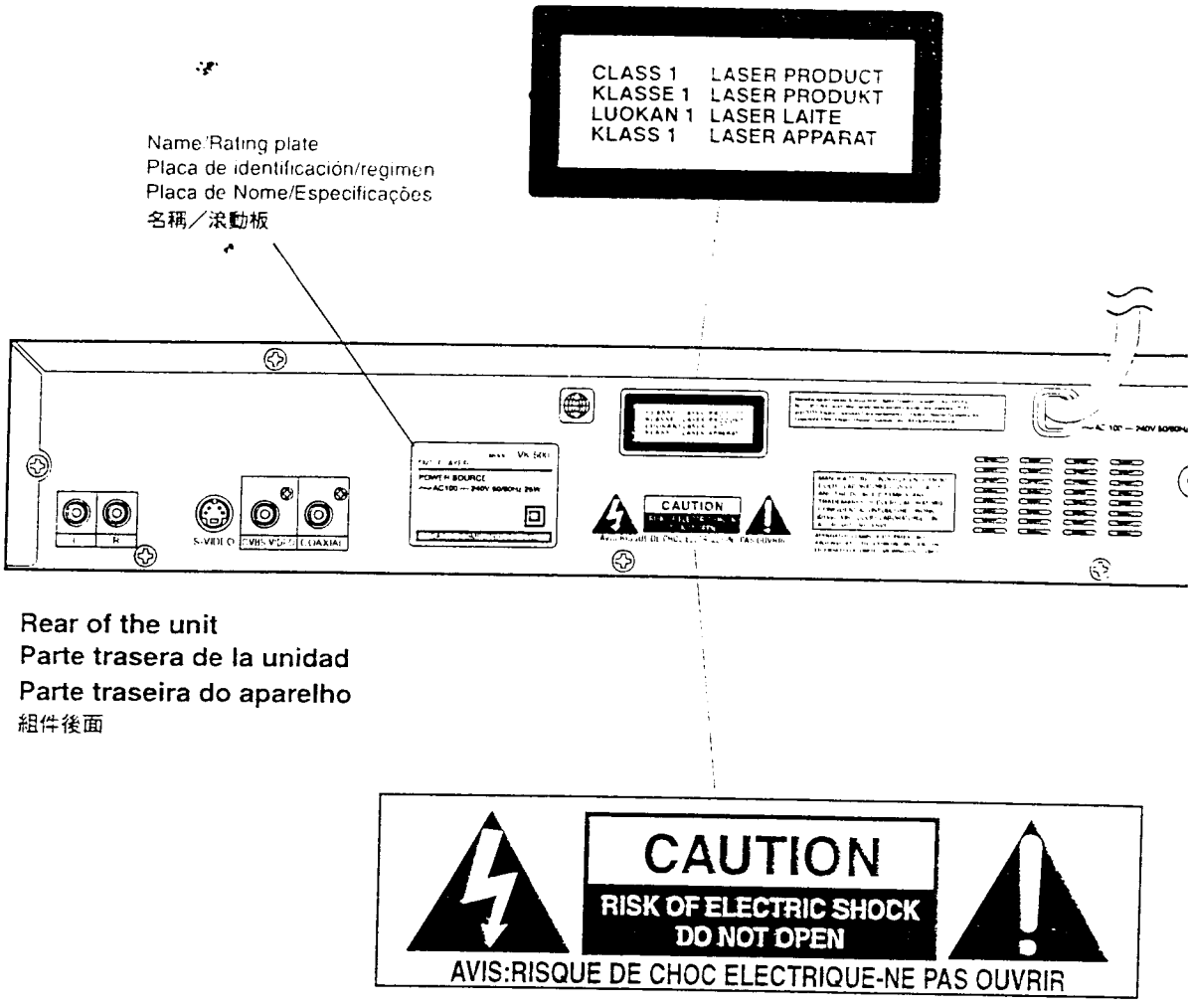

CAUTION; INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED AVOID EXPOSURE TO BEAM
ADVARSEL;USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGÅ UDSÆTTELSE FOR STRÅLING
VARO; AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NAKYMATTOMALLE LASERSATEILYLLE ALA KATSO SATEESEEN!
VARNING; OSYNLIG LASERSTRÅLNING NÄR DENNA DEL AR OPPNAD OCH SPARREN AR URKOPPLAD BETRAKTA EJ STRÅLEN!

This product contains a low-power laser device. To ensure continued safety do not remove any covers or attempt to gain access to the inside of the products. Refer all servicing to qualified service personnel.

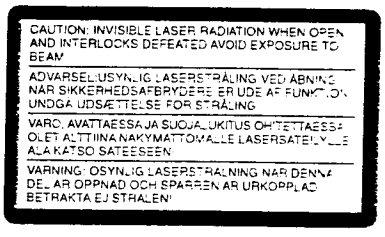
Este producto contieue un dispositivo láser de baja potencia. Por motivos de seguridad, no quite ninguna cubierta, ni intente el acceso al interior del producto. En caso de avería, solicite los servicios de personal técnico cualificado.

Este produto contém um dispositivo a laser de baixa potência. Para assgurar segurança constante, não remova nenhuma cobertura nem tente ganhar acesso à parte interna dos produtos. Solicite todo e qualquer conserto a pessoal técnico qualificado.

本產品含有低功率鐳射器件。為確保安全起見，請勿擅自取下任何蓋子，或者試圖檢修產品內部。一切修理工作均應托有資格的修理人員進行。



Inside the Disc Tray
Dentro de la bandeja del disco
Dentro da bandeja do disco
插入碟片托盤。


CAUTION: INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED AVOID EXPOSURE TO BEAM
ADVARSEL: USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGÅ UDSÆTTELSE FOR STRÅLING
VARO: AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE ÄLÄ KATSO SÄTEESEEN
VARNING: OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD BETRAKTA EJ STRÅLEN!

Caution:
The product contains a laser component of higher laser class than Class 1.
Precaución:
Este producto contiene un componente laser de clase superior a la Clase 1.
Atenção:
Este produto contém um componente laser, cujo laser é de classe superior à Classe 1.
小心：
本產品帶有級別高於級別 1 的鐳射組件。

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Aviod direct exposure to beam.
3. **CAUTION:** Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
4. **CAUTION:** The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the lid is open. It is dangerous to defeat the safety switches.
5. **CAUTION:** Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.

NOTAS IMPORTANTE SOBRE LOS PRODUCTOS LASER

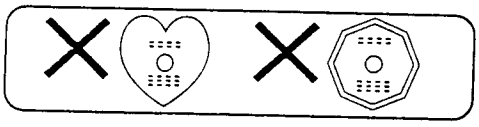
1. PRODUCTO LASER DE CLASE 1
2. **PELIGRO:** Radiación láser invisible cuando se abre y el interbloqueo interior falla o está anulado. Evite la exposición directa al rayo.
3. **PRECAUCION:** No abra la cubierta posterior. En el interior del aparato no hay partes que el usuario pueda reparar, deje todas las reparaciones en manas de personal de servicio cualificado.
4. **PRECAUCION:** El reproductor de discos compactos utiliza radiacion láser invisible y está equipado con conmutadores de seguridad que evitan la emisión de radiación cuando la tapa está abierta. Es peligroso anular los conmutadores de seguridad.
5. **PRECAUCION:** El empledo de los controles para hacer ajustes y realizar procedimientos diferentes a los especificados en este manual podra ocasionar una peligrosa exposición a la radiación.

IMPORTANTE PARA PRODUTOS LASER

1. PRODUTO LASER CLASSE 1
2. **PERIGO:** Radiação laser invisível quando aberto o aparelho e quando o mecanismo de travamento estiver defeituoso ou inoperante. Evite a exposiçao direta ao fexe.
3. **PRECAUÇÃO:** Não abra a tampa traseira. Não há nenhuma peça reparavel pelo usuário no interior do aparelho; encarregue todo serviço a pessoal tecnico qualificado.
4. **PRECAUÇÃO:** O toca-discos CD utiliza radiações laser invisíveis e está equipado com interruptores de seguarança que impedem a emissão de radiações, quando a tampa é aberta. É perigoso desativar os interruptores de segurança.
5. **PRECAUÇÃO:** O uso de controles para ajustamentos e a execução de procedimentos outros, que não aqueles aqui especificados podem resultar em exposição a radiaçõesperigosas.

鐳射產品須知

1. 第一級鐳射產品
2. **危險：**開啟時及聯鎖失效或欠妥時會發出不可見鐳射射線。請勿直接受到光束照射。
3. **小心：**請勿打開後蓋。本機內部沒有用戶可維修的零件，維修工作應由有資格的維修人員來進行。
4. **小心：**鐳射碟機使用不可見鐳射射線，並配備安全開關防止打開蓋子時鐳射射線放射出來。弄壞安全開關是很危險的。
5. **小心：**不按照規定方法用控制器進行調整及操作會導致輻射線照射，非常危險。



CONCERNING COMPACT DISCS

Only compact discs bearing this mark can be used with this unit.

- Do not use irregular shaped CDs (heart-shape, octagonal, etc.).
- Continuous use of irregular shaped CDs may damage the unit.
- Trying to eject the disc while it is still playing is very dangerous and may lead to personal injury. Because of its distinctive shape, as it is rotating at a high speed the disc may come flying out and cut your fingers.
- This unit may not play a CD-R/RW disc that is recorded on personal computers or some kinds of CD-R/RW recorders because of differences in recording platforms.

EN RELACION A LOS DISCOS COMPACTOS

Con esta unidad solamente pueden usarse los discos compactos que llevan esta marca.

- No utilice discos CD con formas irregulares (forma de corazón, octogonales, etc.)
- El uso continuo de un CD con forma irregular puede dañar la unided.
- El intento de expulsar un disco mientras se está reproduciendo es muy peligroso y puede llegar a ocasionar lesiones. Debido a su forma original, el disco gira a alta velocidad y puede ser lanzado con violencia y llegar a cortarse los dedos.
- Esta unidade puede no ser capaz de reproducir discos CD-R/RW grabados en ordenadores personales o en algunos tipos de grabadores de CD-R/RW debido a diferencias en las plataformas de grabación.

SOBRE DISCOS COMPACTOS

Somente discos compactos com a marca mostrada à direita podem ser usados com este aparelho.

- Não utilize CDs com formas irregulares (forma de coração, octogonais, etc.).
- O uso continuo de CDs de formas irregulares pode avariar o aparelho.
- Tentar ejetar o disco enquanto ele ainda está tocando é muito perigoso e pode causar lesões pessoais. Por causa de sua forma característica, e como está girando em alta velocidade, o disco pode sair voando e cortar os seus dedos.
- Este aparelho pode não ser capaz de reproduzir discos CD-R/RW gravados em computadores pessoais ou em alguns tipos de gravadores de CD-R/RW devido a diferenças nas plataformas de gravação.

有關ＣＤ碟片

帶此標記的CD才能用于本機。

- 請勿使用不規則形狀（心形、八角形）的CD。
- 持續使用不規則形狀的CD 會損壞本機。
- 當碟片尚在播放中試圖將其彈出事十分危險的，可能導致人身傷害。由于形狀特殊且高速旋轉，碟片可能會飛出來，傷及您的手指。
- 因錄音平臺的不同，本機可能不能播放在個人電腦或有些CD-R/RW錄音機上錄製的CD-R/RW碟片。

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IMPORTANT SAFEGUARDS AND PRECAUTIONS

CAUTION
BEFORE ORERATING YOUR NEW DVD PLAYER, PLEASE CAREFULLY READ THIS USER'S GUIDE AND THEN SAVE IT FOR FUTURE REFERENCE AS IT WILL BE USEFUL IF YOU HAVE ANY PROBLEMS OPERATING YOUR DVD PLAYER IN THE FUTURE.

Note:
This unit can be used only where the power supply is AC 100-240V, 50/60Hz. It cannot be used elsewhere.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

CAUTION:
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

AS THE LASER BEAM USED IN THIS DVD PLAYER IS HARMFUL TO THE EYES, DO NOT ATTEMPT TO DISASSEMBLE THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

Laser Diode Properties
Material: AiGaInP
Wave length: 650 nm
Emission Duration: Continuous
Laser output: Max. 0.7 mW

WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

- This DVD player is classified as a CLASS 1 LASER product.
- The CLASS 1 LASER PRODUCT label is located on the rear cover.
- This product contains a low power laser device. To ensure continued safety do not remove any cover or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.

IMPORTANT SAFEGUARDS AND PRECAUTIONS

Power Cord Protection

To avoid any malfunctions of the unit, and to protect against electric shock, fire or personal injury, please observe the following.

- Hold the plug firmly when connecting or disconnecting the AC power cord.
- Keep the AC power cord away from heating appliances.
- Never put any heavy object on the AC power cord.
- Do not attempt to repair or reconstruct the AC power cord in any way.

Location and Handling

- Air vents are provided in the DVD player cabinet to prevent excessive temperatures inside the unit. Do not place your DVD player in closed spaces, cover it, or otherwise block the vents.
- Do not place the DVD player in direct sunlight, or near heat sources.
- Keep the DVD player away from strong magnetic objects.
- Do not insert or drop anything into the DVD player through the air vents as this could cause serious damage, possibly resulting in fire.
- Do not place any object containing water or other liquids on the DVD player. In the event that liquid should enter the cabinet, unplug the DVD player immediately and contact the retailer or service center immediately.
- Do not remove the DVD player cabinet. Touching parts inside the cabinet could result in electric shock and/or damage to the DVD player.

Nonuse Periods

When the unit is not being used, turn the unit off.
When left unused for a long period of time, the unit should be unplugged from the household AC outlet.

No Fingers or Other Objects Inside

Do not put any foreign objects on the disc tray.

Stacking

Place the unit in a horizontal position, and do not place anything heavy on it.

Condensation

Moisture may form on the pickup lens in the following conditions:

- Immediately after a heater has been turned on.
- In a steamy or very humid room.
- When the unit is suddenly moved form a cold environment to a warm one.

If moisture forms inside this unit, it may not operate properly. In this case, turn on the power and wait about one hour for the moisture to evaporate.

If There is Noise Interference on the TV While a Broadcast is being Received

Depending on the reception condition of the TV, interference may appear on the TV monitor while you watch a TV broadcast and the unit is left on. This is not a malfunction of the unit or the TV. To watch a TV broadcast, turn off the unit.

Service

Do not attempt to service this DVD player yourself. Please refer any service to the nearest service center.

Copyright

Audio-visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright. Please refer to relevant laws in your country.

Copy Protection

This DVD player supports Macrovision copy protection. On DVD discs that include a copy protection code, if the contents of the DVD disc are copied using a VCR, the copy protection code prevents the videotape copy from playing normally.

Recommended Measures for Optimum Picture Excellence

The unit is a precision device that is constructed using extremely accurate technology.
Soiling or friction affecting the pickup lens or disc drive can impair the image quality. At the worst, neither video nor audio will be played back. To obtain optimum picture quality, the player should be checked (cleaning and replacement of some parts) every 1,000 hours. Note that this period varies depending on the environment (temperature, humidity, dust, ect.) in which the player is used.

Do not attempt to clean the pickup lens yourself.

Features

- Plays DVD, video CD and CD (Digital Audio) discs
- Built-in Dolby Digital (AC-3) decoder supporting Dolby Pro Logic*1 decoding and Virtual Surround
- Karaoke function (with key control and echo)
- DTS*2 digital output capability

*1 Manufactured under license from Dolby Laboratories, "Dolby", "Dolby Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works. ©1992-1997 Dolby Laboratories, Inc. All rights reserved.

*2 "DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc.

Disc Features and this Operation Manual

- The types of functions and operations that can be used for a particular disc vary depending on the features of that disc. In some cases, these functions and operations may differ from the descriptions given in this User's Guide. In this event, follow the instructions given on the screen. This User's Guide only covers basic disc operations.
- For some operations, the 🚫 icon may appear on the screen. This indicates that the operation described in this User's Guide is not permitted for the current disc.

Accessories

- Full function remote controller
- Two (UM-4 or AAA) batteries for the remote controller
- Video/Audio cord
- User's guide

Types of Disc that can be played on Your DVD Player

The unit can play back discs bearing any of the following marks:

DVD VIDEO	DVD [8 cm disc / 12 cm disc]	See NOTE-1 See NOTE-2 See NOTE-3
COMPACT disc DIGITAL VIDEO VIDEO CD	Video CDs [8 cm disc / 12 cm disc]	See NOTE-2 • Supports version until version 2.0
COMPACT disc DIGITAL AUDIO	Audio CDs [8 cm disc / 12 cm disc]	

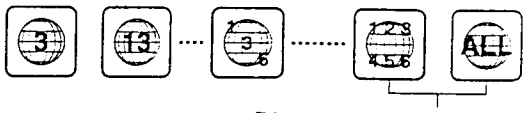
Other CDs
1) On CD-G disc, only the sound can be played (no images).
2) MP3 discs can be used.
3) Photo CD, DVD-ROM, CD-ROM and CD-EXTRA discs cannot be used.
4) Discs with unusual shapes (heart-shaped or hexagonal discs) cannot be used. The use of such discs will cause a fault.

NOTE-1

- DVD players and discs are designed with region numbers which dictate the regions in which a disc can be played. If the region number on the disc you want to play does not match the region number in your DVD player, you will not be able to play the disc.

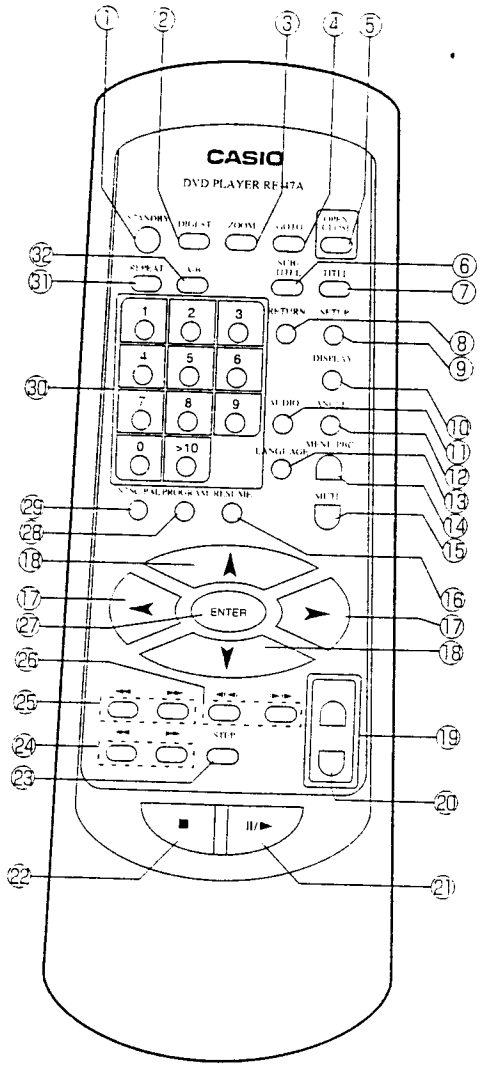
The region number for this DVD player is indicated on the Rear Cover.

Sample disc display:



Disc playable in all regions

Remote Controller Unit of Your DVD Player



① STANDBY button
(see page 9)
② DIGEST button
(see page 23)
③ ZOOM button
(see page 30)
④ GOTO button
(see page 24)
⑤ OPEN/CLOSE button
(see page 21)
⑥ SUBTITLE button
(see page 27)
⑦ TITLE button
(see page 24)
⑧ RETURN button
(see page 23)
⑨ SETUP button
(see page 13)
⑩ DISPLAY button
(see page 30)
⑪ AUDIO button
(see page 28)
⑫ ANGLE button
(see page 27)
⑬ LANGUAGE button
(see page 28)
⑭ MENU/PBC button
(see page 23)
⑮ MUTE button
(see page 28)
⑯ RESUME button
(see page 22)
⑰ ◄ / ► cursor control button
(see page 13)
⑱ ▲ / ▼ cursor control button
(see page 13)
⑲ VOL+ button
(see page 28)
⑳ VOL- button
(see page 28)
㉑ PLAY/PAUSE (II/►) button
(see page 21)
㉒ STOP (■) button
(see page 22)
㉓ STEP button
(see page 21)
㉔ FWD (►►)/REV (◄◄) buttons
(see page 22)
㉕ PREV (I◄◄)/NEXT (►►I) buttons
(see page 22)
㉖ SF (◄I◄I)/SR (I►I►) buttons
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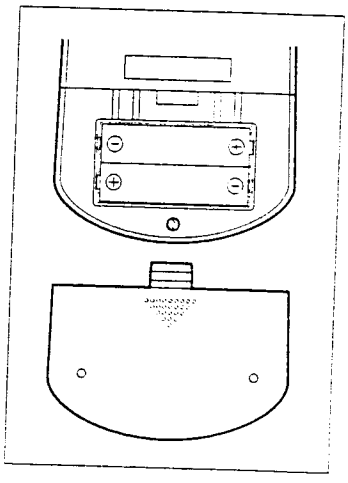
㉗ ENTER button
(see page 13)
㉘ PROGRAM button
(see page 23)
㉙ NTSC/PAL button
(see page 30)
㉚ NUMBER buttons
(see page 21)
㉛ REPEAT button
(see page 26)
㉜ A-B button
(see page 26)

Inserting the Batteries

First, install the batteries properly. Fit two UM-4 or AAA 1.5Volt batteries (included) or equivalent.
If the remote controller stops working, insert new batteries.
Ensure the batteries are inserted correctly, matching the polarities (⊕/⊖) indicated in the remote controller.



NOTE

- Operate the Remote controller's top toward the remote sensor (located on the front panel display) of the main unit, within the distance of 6 meters and within the angle of 30 degrees.
- Do not subject the remote controller to shock, water or excessive humidity.
- The remote controller may not function if the DVD Player sensor is in direct sunlight or any other strong light.
- Incorrect use of batteries may cause them to leak or burst. Read the battery warnings and use the batteries properly.
- Do not mix old and new batteries, or mix brands in use.
- Remove the batteries if you will not use the remote controller for an extended period of time.

- Set the power switch on the player and equipment to be connected to OFF before connecting.
- Read through the User's guide for the equipment to be connected.
- Be sure that the colours of the connectors and plugs match up when connecting the cord.

Notes on Installation
Bundling the cord connecting the DVD player and television with the antenna cable can cause electrical interference when you are watching television programmes. Be sure to keep the DVD player connection cords separate from the antenna cord when you install the player.

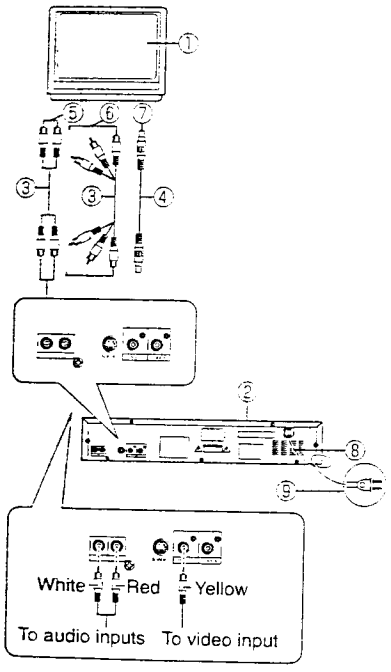
Connecting to a Stereo TV set A

① TV set (sold separately)
② DVD player
③ Video/audio cord (supplied)
④ S-video cord (commercially available)
⑤ To audio input connectors (red, white)
⑥ To CVBS video input connector
⑦ To S-video input connector
⑧ AC power cord
⑨ To power outlet (AC 100-240V, 50/60Hz)

S-video Output Connector

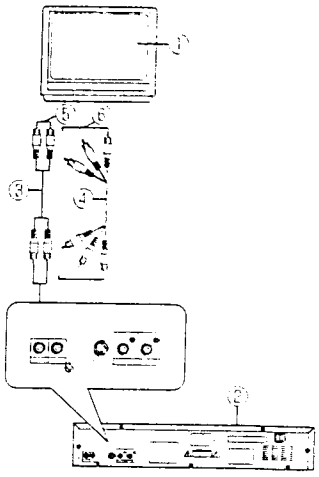
The S (separate) video output connector separates the colour (C) and luminance (Y) signals before transmitting them to the TV set equipped with an S-video input connector for the best picture clarity possible.

A



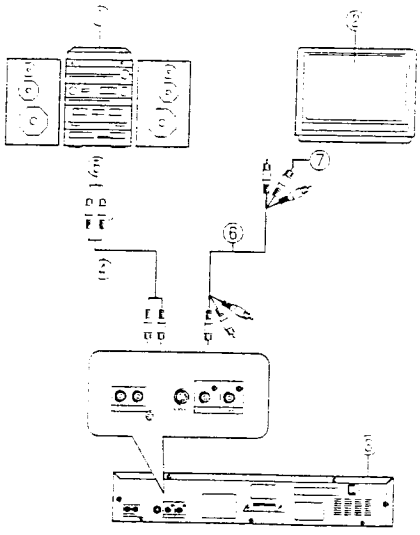
Connecting to a Monaural TV Set B

1 TV set (sold separately)
2 DVD player
3 Audio cord (commercially available)
4 Video/Audio cord (supplied)
5 To audio input connector
6 To video input connector



Connecting to an Audio Equip. C

1 Audio equipment (sold separately)
2 TV set (sold separately)
3 DVD player
4 Audio cord (commercially available)
5 To audio input connectors (red, white)
6 Video/audio cord (supplied)
7 To video input connector

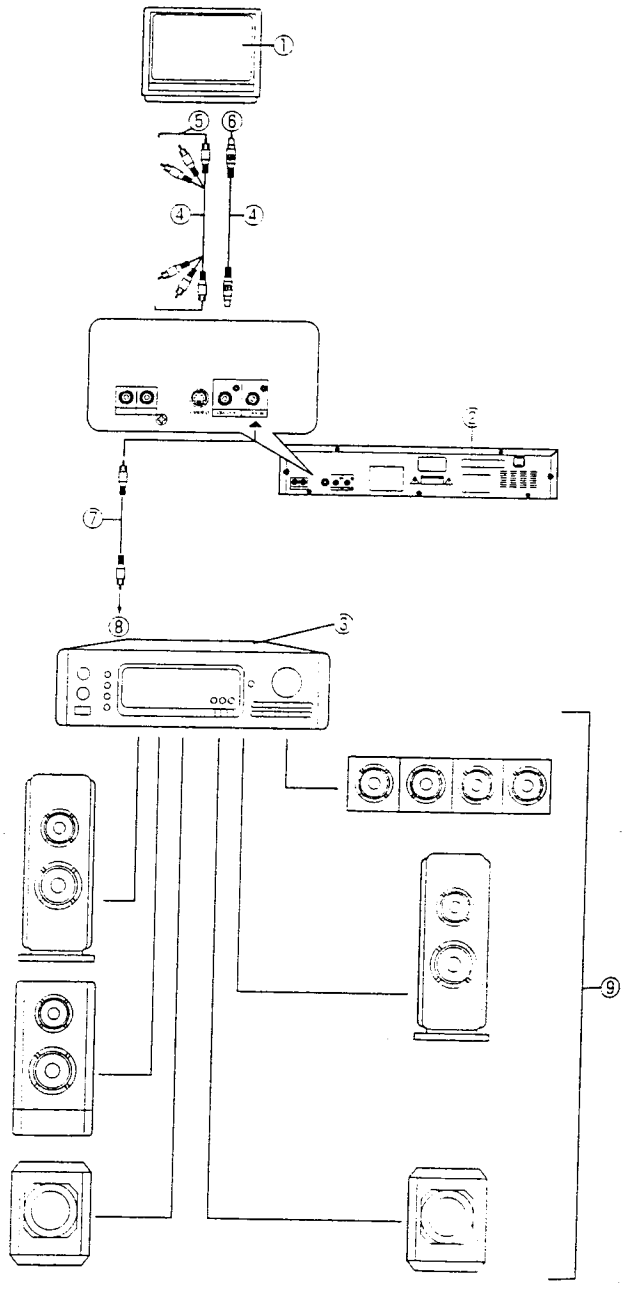


Optional Audio Connection

Connecting to a Decoder with Dolby Digital (AC-3) Processing or an Amplifier with a DTS Decoder

Then DVDs recorded in Dolby Digital Surround are played, Dolby Digital bit stream is output from the DVD player's COAXIAL digital out connector. When the DVD player is connected to a Dolby Digital decoder, you can enjoy theatre-quality audio right in your home.
Similarly, you must purchase a separate cable when you use the COAXIAL digital out connector.)

- You can also enjoy DTS sound from DVD discs recorded in DTS format by connecting your DVD player to an amplifier equipped with a DTS decoder.
- "DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc.
- This DVD player has been equipped with a DTS* compatible digital audio output connectors (optical/coaxial). As an optional audio format for the DVD video specification, this enhances possibilities for future system expansion.
  * A DTS-compatible AV amplifier and DTS-compatible discs are necessary to enjoy DTS high-quality sound.



Preparation

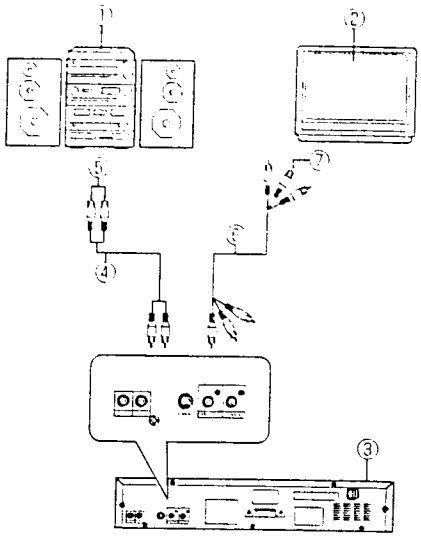
- If you are using the COAXIAL digital out connectors, the AUD OUTPUT setting in the GENERAL SETUP window must be set to "SPDIF/RAW" or "SPDIF/PCM".

① TV set (sold separately)
② DVD player
③ Decoder or Amplifier with Dolby Digital (AC-3) processing (Commercially available)
[or Amplifier with DTS decoder (commercially available)]
④ Video /Audio cord (supplied)
S-video cord (commercially available)
⑤ To Video input connectors
⑥ To S-Video input connectors
⑦ Coaxial cable (commercially available). (**Use the appropriate cable for your audio system.**)
⑧ Coaxial digital input. (**Use the appropriate connector for your audio system.**)
⑨ Connect the speakers.

Optional Audio Connection

Enjoy "Dolby Sound" effect

- You can Enjoy a "Dolby Sound" effect when you are using the MIX-MONO (FL and FR) connectors on the rear panel of DVD player to 2-channel audio equipment (TV, etc.).
- Set the AUD OUTPUT setting in the GENERAL SETUP to "ANALOG", set the DUAL MONO setting in the DOLBY DIGITAL SETUP to "MIX-MONO".



① Audio equipment (sold separately)
② TV set (sold separately)
③ DVD player
④ Audio cord (commercially available)
⑤ To audio input connectors (red, white)
⑥ Video/audio cord (supplied)
⑦ To video input connectors

Setup

Using Setup Menu

Using the menu allows the user to select the play mode setting the various outputs, etc.
In each menu page. select the menu on the left. Use ➤ to go to the option list or setting on the right. Use ➤ to go back to the left menu item.

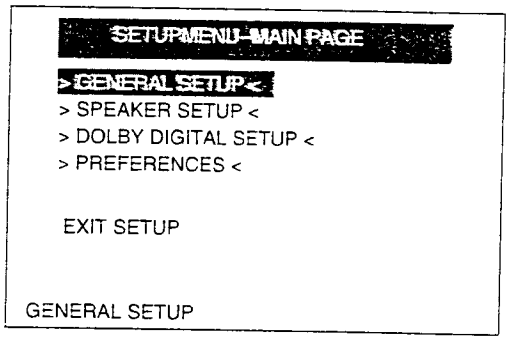
1 Press the **SETUP** button to display the menu main page on the TV screen.
2 Select the main menu item desired using ▲ or ▼, then press the **ENTER** button.
The selected main menu item is highlighted and its option list is shown at the right of the screen.
If the main menu item selected is a link, the corresponding menu page will be opened. From the main menu page these are the GENERAL SETUP menu page, SPEAKER SETUP menu page, DOLBY DIGITAL SETUP menu page, PREFERENCES menu page. From these pages the link returns to the setup menu Main page.
3 Use ➤ to go to the option list.
4 Select the option desired using ▲ or ▼, then press the **ENTER** button.
5 Use ➤ to go back to the left menu item.
6 Press the **SETUP** button to leave the setup menu main page and return to the TV display.

NOTE

- The OSD (On Screen Display) screens used in this User's guide are purely for the purposes of explanations. The actual displays (set displays) may differ slightly from what is shown here.

SETUP MENU - - MAIN PAGE

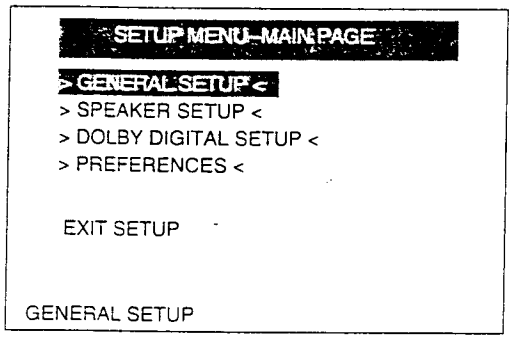
Press the **SETUP** button anytime on the remote controller to view the **SET UP MENU** screen.



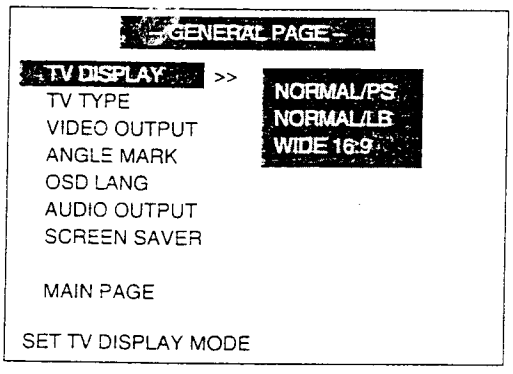
Setup

GENERAL SETUP - - TV DISPLAY

1 Use the ▲ or ▼ button to highlight the GENERAL SETUP item.



2 Press the **ENTER** button to enter GENERAL SETUP, The screen will display:



3 Use ➤ button to go to right option list. Use the ▲ or ▼ button to select NORMAL/PS, NORMAL/LB, WIDE

[NORMAL/PS] -- (Pan & Scan mode): When wide screen video material is played, this mode clips the right and left sides of the image so that it can be viewed on a conventional TV screen.

NOTE

- Some wide-screen (DVD discs) that do not permit Pan & Scan mode playback are automatically played in letterbox mode (black bands top and bottom).

[NORMAL/LB] -- (Letterbox mode): When wide screen video material is played in this mode on a conventional TV screen, black bands appear at the top and bottom of the screen.

[WIDE] -- (Wide-screen TV): This is the correct mode for playing wide-screen videos on a wide-screen TV.

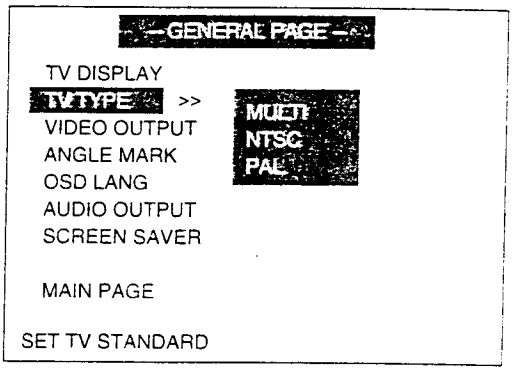
NOTE

- You must also set the screen mode on your wide-screen TV to "FULL".
- If [WIDE] is selected and a NORMAL TV is connected, 16:9 content will appear distorted during playback (objects look thin).

4 Once you have completed the settings in step 3 above, press the **ENTER** button, setting is confirmed. Use the ◄ button to move the screen cursor to go back to the left menu item. Press the **SETUP** key and the normal screen then reappears. If you intend to go on and specify other settings, use the ▲ or ▼ button and press the **ENTER** button to select.

GENERAL SETUP - - TV TYPE

1 Use the ▲ or ▼ button to highlight TV TYPE item.



2 Use the ➤ button to go to right option list. Use the ▲ or ▼ button to select. The following options are available:

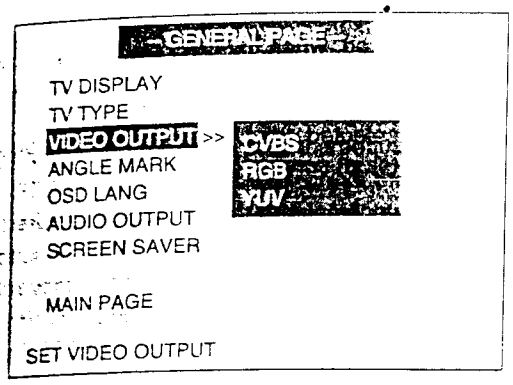
MULTI ..... If the content is PAL, the output is PAL. If the content is NTSC, the output is NTSC.

NTSC ..... TV is PAL, NTSC content is played at PAL resolution and frame rate.

PAL ..... TV is NTSC. PAL content is played at • NTSC resolution and frame rate.

GENERAL SETUP - - VIDEO OUTPUT

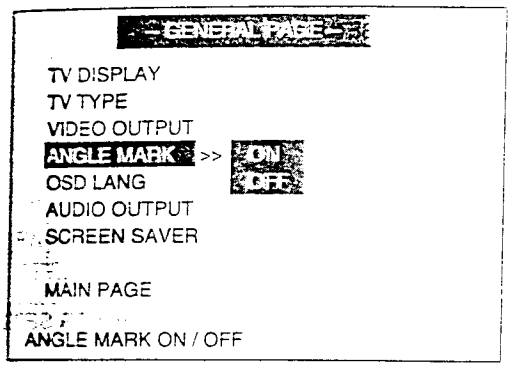
1 Use the ▲ or ▼ button to highlight VIDEO OUTPUT item.



2 Use the ➤ button to go to right option list. Use the ▲ or ▼ button to select CVBS.

GNERAL SETUP - - ANGLE MARK

1 Use the ▲ or ▼ button to highlight ANGLE MARK item.



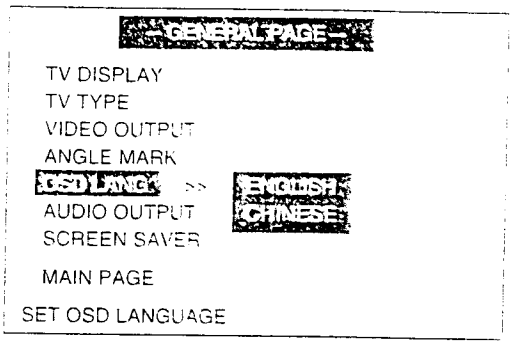
2 Use the ➤ button to go to right option list. Use the ▲ or ▼ button to select ON or OFF

NOTE

- **Changing the Angles**
  Angles may changed on DVDs with multiple angles (multi-angles) of a scene on them. When the ANGLE symbol appears on the screen (check the TV setup menu to turn on/off the angle symbol), while playing a DVD, press Angle button repeatedly to cycle to the various angles; stop pressing the button whenever the desired angle is found.
- The number of angles varies from disc to disc or from scene to scene. The number of angles that can be changed on a scene depends on the disc.
- Depending on the DVD title changing the angles may not be possible even if multi-angles are recorded on the DVD.

GENERAL SETUP - - OSD LANG

1 Use the ▲ or ▼ button to highlight OSD LANG item.



2 Use the ➤ button to go to right option list. Use the ▲ or ▼ button to select OSD LANG.

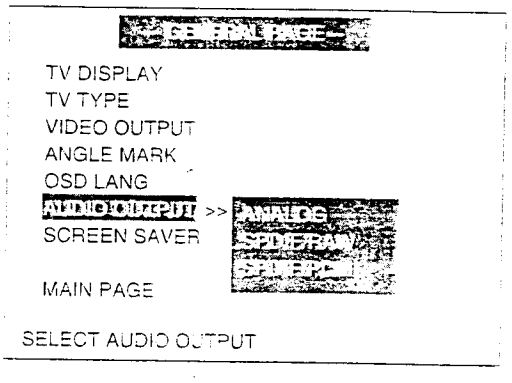
3 Press the ENTER button to confirm your selection. ENGLISH or CHINESE.

NOTE

- Selection of OSD LANG allows you to select a preferred language for the OSD menus and messages and DVD menus.
- Some DVDs may not include the pre-selected language. In this case, the player automatically displays menus consistent with the disc's initial language setting.

GENERAL SETUP - - AUDIO OUTPUT

1 Use the ▲ or ▼ button to highlight AUDIO OUTPUT item.



2 Use the ➤ button to go to right option list. Use the ▲ or ▼ button to select AUDIO OUTPUT. The following options are available:

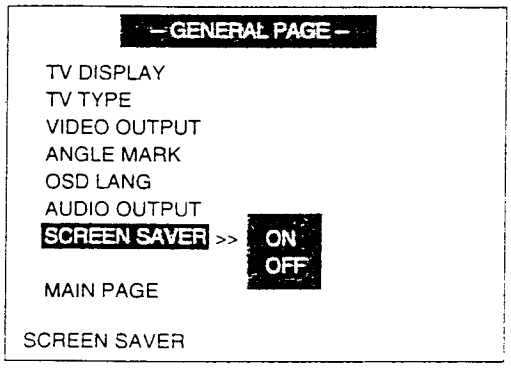
- ANALOG ..... 2RCA jacks on the rear panel are connected to a receiver with 2RCA input.
- SPDIF/RAW ... The COAXIAL output is connected to a receiver that accepts Dolby Digital, MPEG or DTS SPDIF.
- SPDIF/PCM ... When connecting to a receiver that does not accept Dolby Digital, MPEG or DTS SPDIF. The COAXIAL output is connected to a receiver that accepts PCM.

NOTE

- If SPDIF/RAW is selected and the audio source is LPCM (DVD), the output on the COAXIAL connector is PCM.
- If SPDIF/RAW is selected and the audio source is audio CD, the output on the COAXIAL connector is PCM.
- For a monaural TV, use the ANALOG SETTING
- If your speaker system does not match your AUDIO OUT setting, you will not be able to playback the true original sound
- If ANALOG is selected, the COAXIAL will have none audio signal output.
- If a DVD disc with DTS reodorded is loaded, the COAXIAL is connected to a reciever that accepts DTS digital signal automatically.

GENERAL SETUP - - SCREEN SAVER

1 Use the ▲ or ▼ button to highlight SCREEN SAVER item.



2 Press the ▲ or ▼ button to select the SCREEN SAVER ON or OFF.

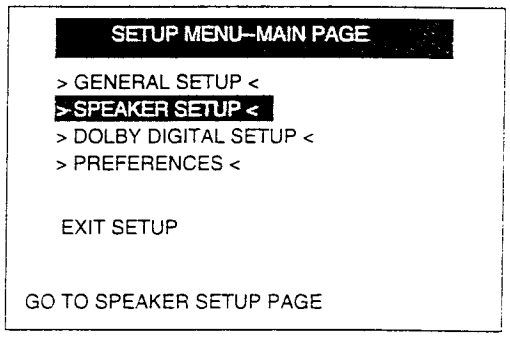
NOTE

- If ON is selected, when the DVD player is stopped. the startup (stop) screen will appear in 1minute. It won't disappear until you play again.
- If OFF was selected, the DVD player will not appear the startup (stop) screen for long period.

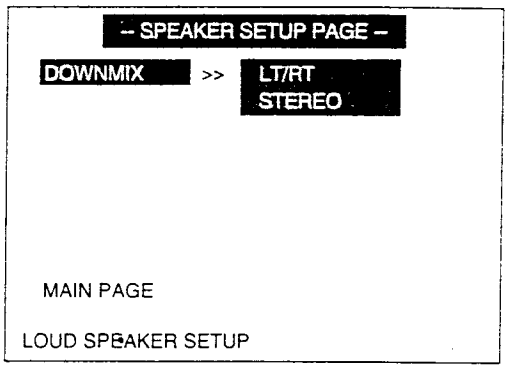
3 Once you have completed the settings you desired in **GENERAL SETUP** above, press the **ENTER** button. setting is confirmed. Use the ◄ button to move the screen cursor to go back to the left menu item. Press the ▼ button to move the cursor to "MAIN PAGE". Press the **ENTER** button to return to the main page.

SETUP MENU - - SPEAKER SETUP

1 Use the ▲ or ▼ button to highlight SPEAKER SETUP item.



2 Press the **ENTER** button to select SPEAKER SETUP, The screen will display:



SPEAKER SETUP - - DOWNMIX

3 Use the ➤ button to go to right option list. Use the ▲ or ▼ button to select. The following options are available:

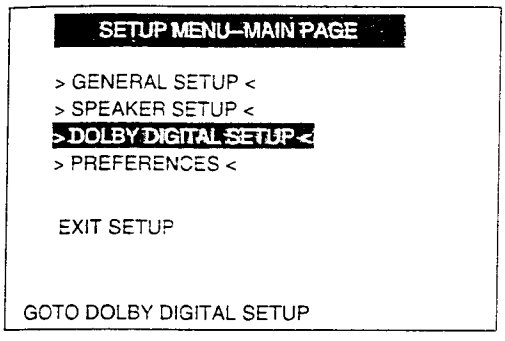
LT/RT: MONO output

STEREO: STEREO output

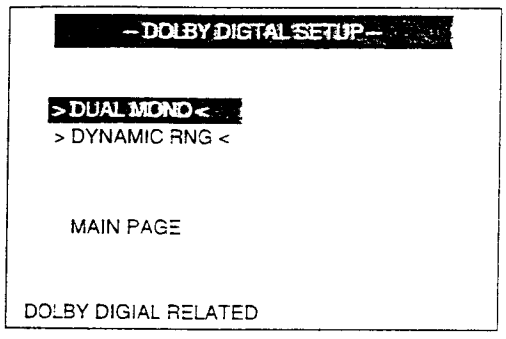
4 Once you have completed the settings you desired in **SPEAKER SETUP** above, press the **ENTER** button, setting is confirmed. Use the ◄ button to move the screen cursor to go back to the left menu item. Press the ▼ button to move the cursor to "MAIN PAGE". Press the **ENTER** button to return to the main page.

SETUP MENU - - DOLBY DIGITAL SETUP

1 Use the ▲ or ▼ button to DOLBY DIGITAL SETUP item.



2 Press the **ENTER** button to select DOLBY DIGITAL SETUP, The screen will display:



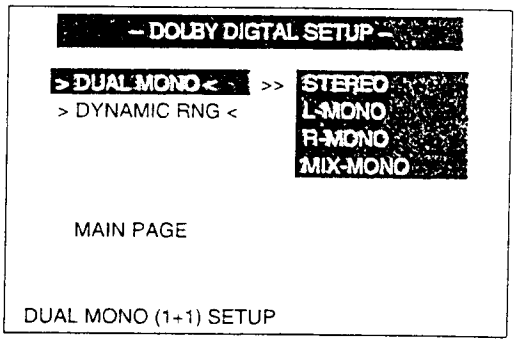
3 Use the ▲ or ▼ button to move the screen cursor to select. The following option are available:

DUAL MONO: DUAL MONO (1+1) SETUP

DYNAMIC RNG: DYNAMIC RANGE compression

DOLBY DIGITAL SETUP-DUAL MONO

4 Use the ▼ or ▲ button to highlight DUAL MONO item.



5 Press the ◄ or ➤ button to move the screen to select. The following options are available:

STEREO: Set STEREO mode

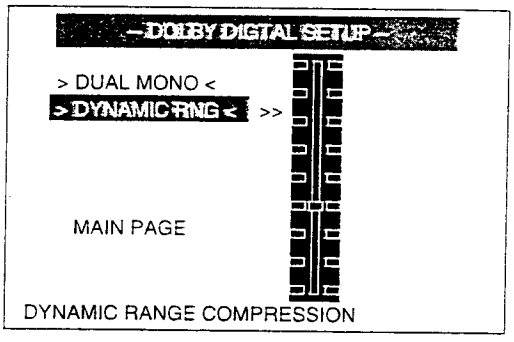
L-MONO: Set LEFT MONO mode

R-MONO: Set RIGHT MONO mode

MIX-MONO: Set MIXED MONO mode

DOLBY DIGITAL SETUP-DYNAMIC RNG

6 Use the ▼ or ▲ button to highlight DYNAMIC RNG item.



7 Use the ➤ button to go to right option list. Use the ▲ or ▼ button to select DYNAMIC RANGE from FULL to 7/8, 3/4, 5/8, 1/2, 3/8, 1/4, 1/8 or OFF. The following options are available:

8 Once you have completed the settings you desired in **DOLBY DIGITAL SETUP** above, press the **ENTER** button, setting is confirmed. Use the ◄ button to move the screen cursor to go back to the left menu item. Press the ▼ button to move the cursor to "MAIN PAGE". Press the **ENTER** button to return to the main page.

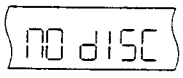
Display Information

No Disc Indicator

NO DISC appears when the tray is closed and:
1) There is no disc in the tray.

<On the TV screen>

<Front panel display>



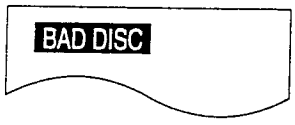
Region (Local) Number Error Indicator

If you play a DVD disc and the region (local) number of the player differs from the region number of the disc (see page 5), the symbol appears on the TV screen and playback stops. (The disc cannot be played.)

Disc Error Indicator

A disc error appears when the tray is closed and:
1) The disc type is not DVD, VCD, or CD.
2) The disc is not loaded correctly (upside-down, etc.)
3) The disc is bad.

<On the TV screen>



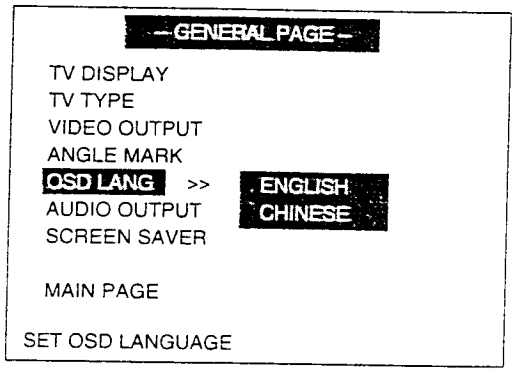
<Front panel display>

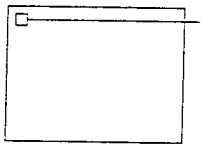
Parental Control Rating Error Indicator

When you play a DVD disc, if the parental rating set for the player does not match the parental rating of the disc, the symbol appears on the TV screen and playback stops. (The disc cannot be played.)

Operation Mode Indicators

While the DVD player is stopped, press the **SETUP** button on the remote controller to view the SETUP screen. Use the ▲ or ▼ button to move the screen cursor to OSD. Press the **ENTER** button to select "ENGLISH" or "CHINESE".





<Operation mode window>

Display Examples

	TV Screen	Front Panel Display	Remarks
If no disc is loaded or an unplayable disc is loaded when the player is switched on	NO DISC BAD DISC	no disc bAd disc	
Tray open	OPEN	OPEN	
Tray closed	CLOSE DISC LOADING	CLOSE	
Stopped	PRESS PLAY TO CONTINUE STOP		The time indicator changes to show other indicators (total time, etc.)
Playing	PLAY	►	
Still/Paused	PAUSE	II	Differs depending on the disc being played.
Slow	SF 1 SF 2 SF 3 SR 1 SR 2 SR 3	SLOW	Does not function for MP3s or CDs.

Preparations

- Switch on the TV set's power, and select "VIDEO" as the TV input. Refer to the operation manual for your TV for details.
- Switch on the stereo system's power if the DVD player has been connected to a stereo system.

Basic Play

1 Press the **POWER** button on your DVD player (ON).

2 Press the **OPEN/CLOSE** button on the front of the DVD player or on the remote controller to open the disc tray.

3 Place a disc onto the tray.
Hold the disc without touching either of its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.

① 8cm (3") disc
② 12cm (5") disc

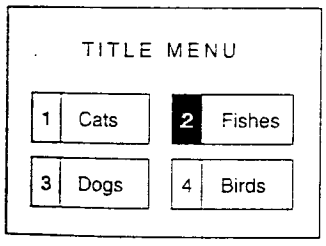
CAUTION:
Do not stack discs in the tray. This can damage the player and the disc.

4 Press the **OPEN/CLOSE** button on the front of the DVD player or on the remote controller to close the disc tray.

5 Press the **PLAY** button on the DVD player or on the remote controller (**II/►**).
- If no menu or titles are recorded at the start of the disc, the disc begins playing immediately.
- Discs can also be played in Slow, Still, Single Stepping, Fast Forward and Fast Reverse modes.
- If the disc has one or more titles recorded on it, a menu screen will appear on the TV monitor after a few moments (with TITLE MENU disc only).

NOTE
- On some discs, chapters are not displayed.

6 Use the cursor controls (or a number button) to select the desired title. (Highlight the desired title number.)
(Example)



NOTE
- Disc Title Menus are recorded on some DVD discs.
- You can press the **TITLE** button on the remote controller to invoke Title Menu, then press the cursor control button to highlight selected Title Menu entry and press the **ENTER** to select highlighted entry.
- If highlighted entry indicates a title, that title will play from chapter 1.
- You can also press the **MENU** button on the remote controller to invoke the menu screen on many DVDs, then press the cursor control button to highlight selected menu entry and press the **ENTER** to select highlighted entry.
- If highlighted entry indicates a chapter or title, the disc will play from the selected spot.
- You can use the number buttons (**0** to **9** and **>10**) on the remote controller to select the title or menu entry directly.

Still Picture

7 Press the **STEP** button on the remote controller.

8 If you press the **STEP** button on the remote controller while a still image is displayed, normal playback resumes.

Single Stepping

9 Press the **STEP** button to single step forward to the next picture in the video.

10 Press the **PLAY** or **II/►** button to resume normal playback.

Slow-Motion Play

11 Press the **I► I►** or **◄I ◄I** button in the play mode or still mode to play a disc in slow motion.

12 Each time the **I► I►** or **◄I ◄I** button is pressed, the slow motion speed change from1, 2, 3, to play.

NOTE
- On some discs, the slow motion playback functions are disabled.

DVD Playback

PHONES jack

For private listening, connect the plug of the headphones to the **PHONES** jack.

To Return to the Normal Play

Press the II/► button.

Resume Function

When you have stopped a disc during playback, the Resume function allows you to go back and start playing the disc at a point just prior to the scene in which it was stopped.

NOTE

- This function will not operate on some discs.

13 Press the **STOP** button once to "resume" stop playback and show **PRESS PLAY TO CONTINUE** on the screen. The player memorizes the location where playback is stopped.

14 Press the II/► or **RESUME** button to resume playback from the location where playback is stopped (DVD, VCD1.1, VCD2.0/SVCD/VCD with PBC off, and audio CD).

NOTE

- If the STOP ■ button is pressed twice, the stop location memorized is erased. So you cannot resume playback from the location stopped. Press the II/► button to play back from the beginning of the disc.

Fast Forward

1 If you press the ►► button on the remote controller while a disc is playing, the image begins to fast forward at low speed.

2 Each time the ►► button is pressed, the fast forward speed changes from 1, 2, 3, 4, to play.

Fast Reverse

1 If you press the ◄◄ button on the remote controller when a disc is playing, the image begins to fast backward at low speed.

2 Each time the ◄◄ button is pressed, the fast backward speed changes from 1, 2, 3, 4, to play.

NOTE

- On some discs, the fast forward playback is disabled.
- The fast forward/backward speed may differ depending on the disc.

Skip (Forward/Next)

- Skip (Forward): while you are playing a disc, this function jumps forward to the beginning of the next chapter and automatically starts playing that chapter.

NOTE

- On discs or titles that do not have chapter settings, playback skips forward to the next title.
- On some discs, the skip functions are disabled.
- Playback skips forwards one chapter for each time the **NEXT** ►►I button is pressed.

1 While a disc is playing, press the **NEXT** ►►I button on the remote controller or on the DVD player.

Skip (Reverse/Previous)

- Skip (Reverse): while you are playing a disc, this function jumps to the beginning of the previous chapter and automatically starts playing that chapter.

NOTE

- On discs or titles that do not have chapter settings, playback skips back to the current title or disc.
- On some discs, the skip functions are disabled.

1 While a disc is playing, press the **PREV** I◄◄ button on the remote controller or on the DVD player.

VCD (Video CD) and CD (Audio CD) Playback

- To prepare for playing DVD discs, perform steps 1 to 5 in "Basic Play". (page 24)
- To Prepare for playing VCD and CD discs, please refer to the operations about DVD playback on page 24-25. They have the similar operations.

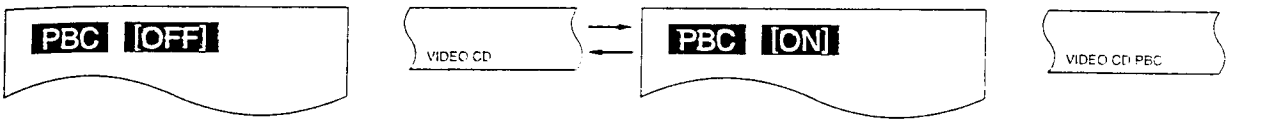
NOTE
- Some VCD2.0/SVCD/VCD discs start playback with a menu. See "Menu navigation (PBC)" below on how to navigate menus.

Menu Navigation (PBC)

Press the number buttons (**0** to **>10**) on the remote controller to select a track to play (VCD2.0/SVCD/VCD only).

NOTE
- PBC must be on.
  Using the **MENU/PBC** button on the remote controller to adjust PBC "ON" or "OFF" when the VCD2.0/SVCD/VCD disc is loaded in the DVD player.

<On the TV screen> <Front panel display> <On the TV screen> <Front panel display>



- When the video disc recorded PBC is playing, press the **RETURN** button on the remote controller, the PBC Menu of the disc will appear on the screen and wait for you to select a track to play.

Digest (VCD/SVCD/VCD only)

1 Press **DIGEST** button on the remote controller during playback stopped to invoke the digest function. The player will fetch an image at the beginning of each track and display them one by one in a 3x3 grid format on the screen with numbers indicating each track. Up to 9 track images can be displayed.

NOTE
- If the disc has more than 9 tracks, press the **NEXT** ⏭ button to display up to 9 more tracks. Press **NEXT** ⏭ and **PREV** ⏮ as necessary to show all the tracks.

2 To select a track, press the number buttons (**0** to **>10**) on the remote controller.

Programmed play [CD and VCD (Karaoke) only]

1 Load a CD or VCD.

2 After the player started playback, press the **STOP** button.

3 Press the **PROGRAM** button. "PROGRAM P00:00" appears.

4 For example, if you want to store the track No.7 as a program 1, press **7** of the number button. "PROGRAM P01:07" is shown.

5 For example, if you want to store the track No.12 as a program 2, press **>10** and then **2** of the number button. "PROGRAM P02:12" is shown.

6 Repeat the steps 4 and 5 as you wish. You can program up to 99 tracks.

7 Press the **PLAY** button to play back your program.

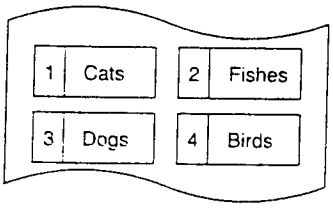
8 To cancel the program, press the **STOP** button and then press the **PROGRAM** button.

Direct Selection of Scenes

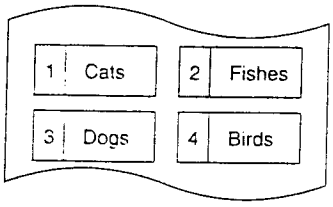
<DVD Discs>
Selecting Scenes by Title Number

NOTE
- This function only operates on DVD discs that have a title screen.
  (Example) Viewing title "2"

1 Press the **TITLE** button on the remote controller to show the title screen.



2 Use the cursor controls or the number buttons (**0** to **>10**) to select "2" title.



3 When you press the **ENTER** button on the remote controller, title 2 starts playing.

NOTE
- On some discs, you can press **DIGEST** button to return to "ROOT MENU", and operate it same as steps 2 and 3 above.

Direct Skip Function

This function allows you to skip directly to the beginning of any time, title (track) or chapter while a disc is playing.

NOTE
- The Title Direct Skip function does not operate on discs on which no title are recorded.
- On some discs, the Direct Skip function is disabled.

<DVD Discs>
Time Direct Skip

- Press the **GOTO** button on the remote controller to enable the Search Menu. The OSD will display.

TITLE 06/06 CHAPTER 01 / 19

- Press the **GOTO** button on the remote controller cyclically to select the type of search, either a time search or chapter / title search.

1 To jump to a spot in time on the disc, press the **GOTO** button on the remote controller to select TIME.

TITLE 06/06 TIME _ _ : _ _ : _ _

2 Using the number buttons (**0** to **9**) to enter the time in units of "hh:mm:ss" (hours, minutes, seconds).
(Example) Press **0,1,2,3,4,5**

TITLE 06/06 TIME 01:23:45

3 Press the **ENTER** button confirms the key-in time and the player skips to the time within 2 seconds and begins playing.

NOTE
- If the entered time does not exist on the disc, the number is ignored and the ⃠ symbol displays on the screen when the **ENTER** button is pressed.

Direct Selection of Scenes

Chapter Direct Skip

4 To jump to the beginning of a specific chapter, press the **GOTO** button on the remote controller.

TITLE 06/06 CHAPTER 01 / 19

5 Using the number buttons (**0** to **>10**) to enter the chapter number. (Example) Press **5**

TITLE 06/06 CHAPTER 05 / 19

6 Press the **ENTER** button confirms the selected chapter and the player skips to chapter 5 within 2 seconds and begins playing.

NOTE

- If the entered chapter does not exist on the disc, the number is ignored and the 🚫 symbol displays on the screen when the **ENTER** button is pressed.

Title Direct Skip

7 To jump to the beginning of a specific title, press the **GOTO** button on the remote controller and press the ◄ or ► button to move the cursor to TITLE.

TITLE 06 / 06 CHAPTER 05 / 19

8 Using the number buttons (**0** to **>10**) to enter the title number.
(Example) Press **5**

TITLE 05 / 06 CHAPTER 05 / 19

9 Press the **ENTER** button confirms the selected title and the player skips to title 5 within 2 seconds and begins playing.

NOTE

- If the entered title does not exist on the disc, the number is ignored and the 🚫 symbol displays on the screen when the **ENTER** button is pressed.

<VCD (video CDs) and CD (audio CDs)> Time and Track Direct Skip

1 Press **GOTO** button on the remote controller to enable the GOTO Menu.

GOTO _ _ : _ _

2 Using the number buttons (**0** to **9**) to enter the time in units of "mm:ss" (minutes, seconds).
(Example) Press **1,2,3,4,**

GOTO 1 2 : 3 4

3 The player skips to the time within 2 seconds and begins playing.

4 To jump to the beginning of a specific track, using the number buttons (**0** to **>10**) to enter the track number.
(Example) Press **5**

SELECT : 05

5 The player skips to track 5 within 2 seconds and begins playing.

NOTE

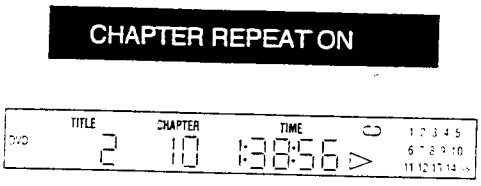
- If the entered time / track does not exist on the disc, the number is ignored and the 🚫 symbol displays on the screen when the **ENTER** button is pressed.

Repeat Playback

Repeat playback is disabled on some discs.

<DVD Discs>
Chapter Repeat

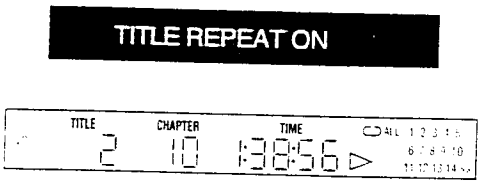
1 If you press the **REPEAT** button on the remote controller while a disc is playing, the current type of repeat (CHAPTER REPEAT ON) will show on the screen.



2 While "CHAPTER REPEAT ON" is showing, the current chapter is played repeatedly. The display automatically goes off in a second.

Title Repeat

3 If you press the **REPEAT** button again the current title is played repeatedly. The display automatically goes off in a second.



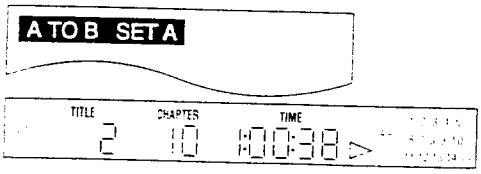
Repeat Off

4 If you press the **REPEAT** button again, repeat playback ends and normal playback resumes.

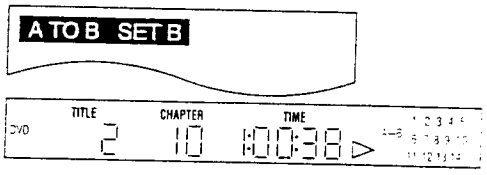
A-B Repeat

- A-B repeat: Repeats any specified section on the disc.

1 While you are playing a disc, press the **A-B** button on the remote controller once at the beginning of the segment (point A) you want to play repeatedly. The OSD and front panel will display as following.



2 While the disc is playing the same title, press the **A-B** button again at the end of the segment (point B) to be repeated. The OSD and front panel will display.



The player automatically returns to point A and starts repeat playback of the selected segment (A-B).

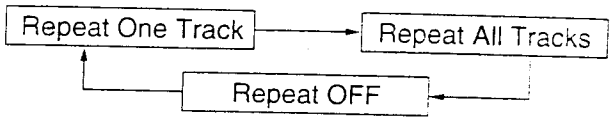
NOTE

- A-B repeat can only be used within the same title. (On some discs, A-B repeat is restricted on the same chapter.) If the start and end of the section to be repeated are in different titles (chapter), A-B repeat will be none action.
- If the front panel display does not show the lapsed playback time while a DVD disc is playing. A-B repeat playback cannot be used for that DVD disc.
- The A-B Repeat function does not operate in scenes where different camera angles are recorded.

3 Press the **A-B** button a third time to disable A-B repeat playback and allow playback to continue in normal fashion. The OSD will display:

<VCD and CD>

- Press the **REPEAT** button while a disc is playing to select Repeat function. It has 3 modes.



- While a VCD or CD disc is playing, you can use the **A-B** button to set **A-B** repeat playback as same as DVD's.
- A-B repeat can only be used within the same track. If the start and end of the section to be repeated are in different tracks, A-B repeat is cancelled.

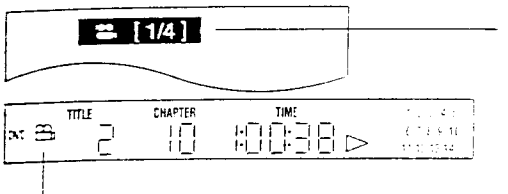
Angle Selection (DVD only)

NOTE
- This function can only be used for discs on which scenes shot from multiple angles have been recorded.
- Some DVD discs contain scenes which have been shot simultaneously from a number of different angles. For these discs, the same scenes can be viewed from each of these different angles using the **ANGLE** button. (The recorded angles differ depending on the disc used.)
- Title that have been shot from different angles are indicated by an indicator on the front panel display.

1 While you are playing a DVD disc with different angles recorded, press the **ANGLE** button on the remote controller to view the number of the current angle. The OSD indicates the current angle selected and the total available angles to select.

2 When you press the **ANGLE** button again within 3 seconds, the scene changes to the next angle in those recorded, and playback continues from the new angle.

NOTE
- If only one angle is recorded, the angle mark does not appear on the front panel.
- Some DVDs allow you to change the angle only via the disc menu.



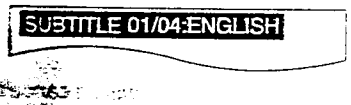
Number changes to show the number of recorded angles (1/4 — 2/4 — 3/4 — 4/4 —...etc.) (The maximum number stipulated by the manufacturers is 9/9.)

Lights when different angles are recorded for the title currently playing.

Subtitle Selection (DVD only)

NOTE
- This function can only be used for discs on which subtitles have been recorded in multiple languages.

1 If you press the **SUBTITLE** button on the remote controller while a DVD disc is playing, the current language setting is displayed, as shown in the example below. When you press the **SUBTITLE** button again within 3 seconds, the scene changes to the next subtitle in those recorded, and subtitle is displayed in new language.



NOTE
- The first press will show the current subtitle setting selected. Subsequent presses toggle to the next subtitle setting.
- Some DVDs display subtitles automatically, and cannot be turned off even if you set the subtitle function to OFF.
- During some scenes, the subtitles may not appear immediately after you turn them on.
- Some DVDs will allow you to make subtitle selections and turn subtitles on or off only via the disc menu.
- The maximum number of subtitle languages stipulated by the manufacturers is 32/32.

Audio Selection

<DVD Discs>

- This function can only be used for discs on which the sound has been recorded in multiple formats.
- On some discs, the sound is recorded in both Dolby Digital (5.1 channels) and Linear PCM. Use the procedure below to select the type of playback.

1 While you are playing a DVD disc with different audio language recorded, press the **LANGUAGE** button on the remote controller to view the type of the current audio. the OSD indicates the current setting, giving the number of audio format, language, audio type and number of channels.

AUDIO 2/8: AC3 2CH CHINESE

2 While the audio format is display, press the **LANGUAGE** button again within 3 seconds to select the next audio format in those recorded, and playback then continues in new audio type.

NOTE

- The first press will show the current language selected. Subsequent presses toggle to the next audio language.
- Some DVDs allow you to change audio selections only via the disc menu.
- If only one audio format is recorded, the type does not change.
- The maximum number of audio formats stipulated by the manufacturers is 8/8.
- If no button is pressed within 3 seconds, the indicator goes off.

<Video CDs and Audio CDs>

- Four types of playback are available for VCD discs and CD discs.
- Some DVD discs have this function.

1 While you are playing a disc with different channels recorded, press the **AUDIO** button on the remote controller to enable the KARAOKE function. The OSD will display the following:

DVD:
- AUDIO 1
- AUDIO 2
- AUDIO 1 VOCAL
- AUDIO 2 VOCAL

VCD:
- LEFT VOCAL
- RIGHT VOCAL
- MONO LEFT
- MONO RIGHT
- STEREO

2 To redirect the left and right channels or apply voice cancellation, press **AUDIO** button repeatedly to toggle AUDIO to different mode.

NOTE

- LEFT VOCAL ..... Only the left channel is sent to both the left and right channel outputs.
- RIGHT VOCAL ..... Only the right channel is sent to both the left and right channel outputs.

Audio Output Volume Adjusting

- Press the **VOL+** and **VOL-** buttons on the remote controller to adjust the audio output level from 0 to 16. The step of each pressing is 1.
- Press the **MUTE** button on the remote controller, all of the audio outputs will be shut off and the sound will be cancelled right now. Press the **MUTE** button again to resume the normal output.

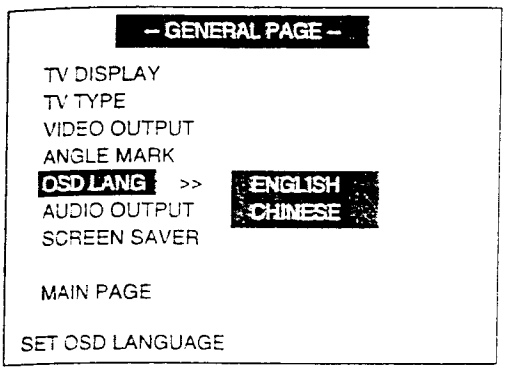
OSD Language Setting

1 While the DVD player is stopped or playing, press the **SETUP** button on the remote controller to view the SETUP screen.

2 Press the **ENTER** button to enter GENERAL SETUP.

3 Use the ▲ or ▼ button to move the screen cursor to OSD LANG.

4 Use the ➤ button to go to right option list. Use the ▲ or ▼ button to select a language (English or Chinese) for Menu, press the **ENTER** button to confirm it.



5 Use the ▲ or ▼ button to move the screen cursor to select ENGLISH or CHINESE.

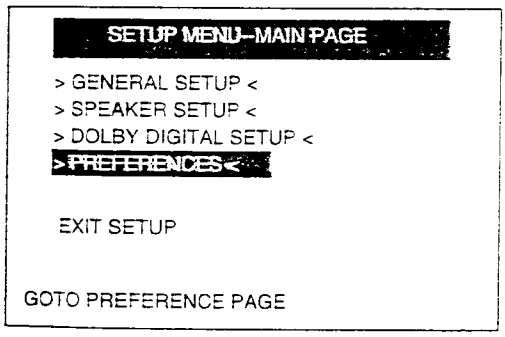
NOTE

- Selection of LANGUAGE allows you to select a preferred language for the OSD manus and messages and DVD menus.
- Some DVDs may not include the pre-selected language. In this case, the player automatically displays menus consistent with the disc's initial language setting.

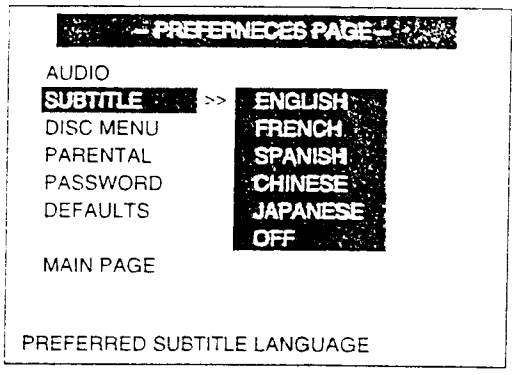
Preferred Subtitle Language Setting

6 While the DVD player is completely stopped. Press the **SETUP** button on the remote controller.

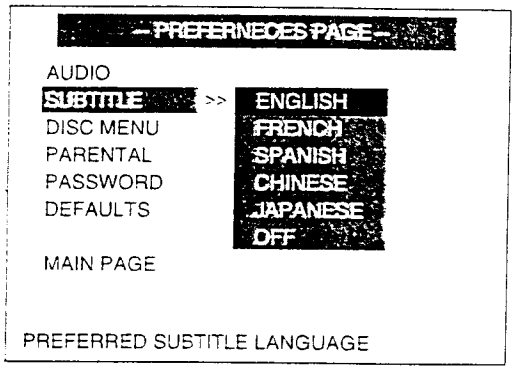
7 Use the ▲ or ▼ button to move the screen cursor to PREFERENCES.



8 Press the **ENTER** button to go to PREFERENCES PAGE. Use the ▲ or ▼ button to move the screen cursor to SUBTITLE.



9 Use ➤ button to go to right option list. Use the ▲ or ▼ to select a preferred subtitle language (DVD only). The following options are available.



OFF ..... Preference is for disabled subtitles.
ENGLISH ..... Subtitle preference is English.
FRENCH ..... Subtitle preference is French.
SPANISH ..... Subtitle preference is Spanish.
CHINESE ..... Subtitle preference is Chinese.
JAPANESE ..... Subtitle preference is Japanese.

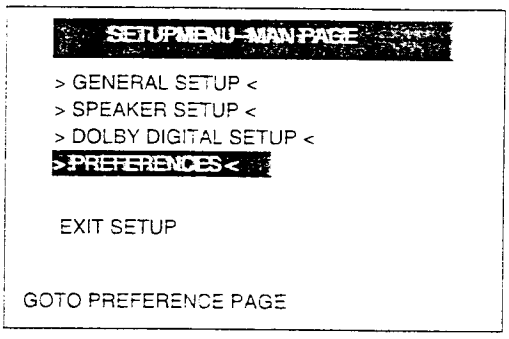
NOTE

- Some DVDs may be set to display subtitle in a different language than you selected.

Preferred Audio Language Setting

10 While the DVD player is completely stopped. Press the **SETUP** button on the remote controller.

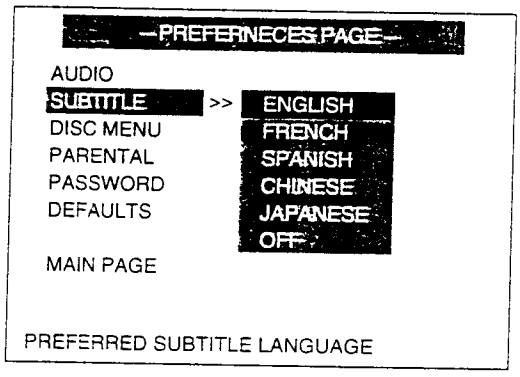
11 Use the ▲ or ▼ button to move the screen cursor to PREFERENCES.



Player Configuration Via Setup Menu

12 Press the **ENTER** button to go to PREFERENCES PAGE. Use the ▲ or ▼ button to move the screen cursor to AUDIO.

13 Use the ➤ button to go to right option list. Use the ▲ or ▼ button to select a preferred audio language (DVD only). The following options are available:



ENGLISH ..... Audio preference is English.
FRENCH ..... Audio preference is French.
SPANISH ..... Audio preference is Spanish.
CHINESE ..... Audio preference is Chinese.
JAPANESE ..... Audio preference is Japanese.

NOTE

- Some DVDs may be played in a different language than you selected.

TV Standard Setting (NTSC or PAL)

1 Use the ▲ or ▼ button to highlight TV TYPE in GENERAL PAGE, or use **NTSC/PAL** button on the remote controller to select the TV TYPE.

2 If your use GENERAL PAGE to set up TV TYPE, press the **ENTER** button to select the TV Standard. The following options are available:

MULTI ..... If the content is PAL, the output is PAL. If the content is NTSC, the output is NTSC.
PAL ..... TV is PAL. NTSC content is played at PAL resolution and frame rate.
NTSC ..... TV is NTSC. PAL content is played at NTSC resolution and frame rate.

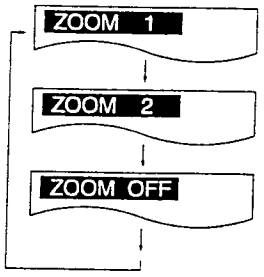
NOTE

- Playing PAL DVDs, SVCDs or VCDs with TV SYS set to NTSC is not allowed. The OSD will indicate:

Picture Zooming

1 Press the **ZOOM** button on the remote controller during normal, slow or still playback.

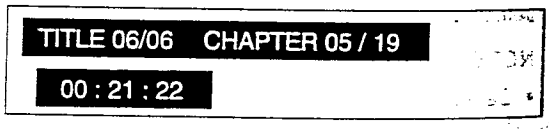
2 If you further press the **ZOOM** button repeatedly, the magnification level increases. Three magnification levels are supported. On each press of **ZOOM**, the OSD will flash the following:



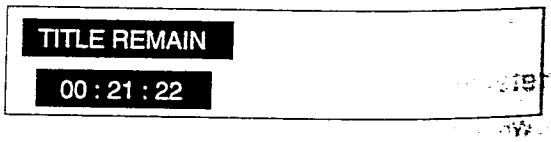
Playing Information Display

- Using the **DISPLAY** button, you can view the time, chapter / track and title information of the disc being played.

1 Press the **DISPLAY** button on the remote controller once, the OSD will display the additionally the current chapter and total number of chapters (DVD) or track (VCD / SVCD / VCD, audio CD) and the total number of chapters or tracks. Also displayed (for DVD only) is the current title and total number of titles. And also display the amount of time played. (Example)



2 Press the **DISPLAY** button second time, the OSD will display the amount of time that the playing title remains. (Example)



3 Press the **DISPLAY** button third time, the OSD will display the amount of time that the playing chapter elapsed. (Example)

4 Press the **DISPLAY** button fourth time, the OSD will display the amount of time that the playing chapter remains. (Example)

5 Press the **DISPLAY** button one more time, the OSD will go off.

Angle

Recorded onto some DVD discs are scenes which have been simultaneously shot from a number of different angles (the same scene is shot from the front, from the left side, from the right side, etc.). With such discs, the **ANGLE** button can be used to view the scene from different angles.

Chapter Number

These numbers are recorded on DVD discs. A title is subdivided into many sections, each of which is numbered, and specific parts of video presentations can be searched quickly using these numbers.

DVD

This refers to a high-density optical disc on which high-quality pictures and sound have been recorded by means of digital signals. Incorporating a new video compression technology (MPEG II) and high-density recording technology, DVD enables esthetically pleasing full-motion video to be recorded over long periods of time (for instance, a whole movie can be recorded).
DVD has a structure consisting of two 0.6 mm thin discs which are adhered to each other. Since the thinner the disc, the higher the density at which the information can be recorded, a DVD disc has a greater capacity than a single 1.2mm thick disc. Since the two thin discs are adhered to each other, there is the potential to achieve double-sided play sometime in the future for even longer duration play.

Linear PCM Sound

Linear PCM is a signal recording format used for audio CDs.
The sound on audio CDs is recorded at 44.1kHz with 16 bits. (On DVD discs, sound is recorded at between 48kHz with 16 bits and 96kHz with 24 bits.)

Playback Control (PBC)

This is recorded on a video CD (version 2.0). The scenes or information to be viewed (or listened to) can be selected interactively with the TV monitor by looking at the menu shown on the TV monitor.

Subtitles

These are the printed lines appearing at the bottom of the screen which translate or transcribe the dialogue. They are recorded on DVD discs.

Time Number

This indicates the play time which has elapsed from the start of a disc or a title. It can be used to find a specific scene quickly. (It may not work with some discs.)

Title Number

These numbers are recorded on DVD discs. When a disc contains two or more movies, these movies are numbered as title 1,title 2, etc.

Track Number

These numbers are assigned to the tracks which are recorded on video CDs and audio CDs. They enable specific tracks to be located quickly.

Video CD (VCD)

This contains recordings of pictures and sound whose quality is on a par with that of video tape. This player also supports video CDs with playback control (version 2.0).

Specifications

Signal System	NTSC/PAL
Video output	Output connector: RCA-jack Output level: 1 Vp-p (75 ohm)
S video output	Y output level: 1 Vp-p (75 ohm) C output level: 0.3 Vp-p (75 ohm) / 75% colour Output connector: DIN-jack
Audio output	Output connector: RCA-jack Output level : 2 +0.1/-0.2 Vrms (1 kHz, 0 dB)
Digital audio I/F Audio output	Coaxial digital output: RCA-jack
Video signal horizontal resolution	480 lines (DVD)
S/N ratio	60 dB(DVD)
Audio Signal frequency characteristics	For DVD linear PCM playback: 20 Hz to 22kHz (48 kHz sampling) 20 Hz to 44kHz (96 kHz sampling) CD playback: 20 Hz to 20 kHz (EIAJ)
S/N ratio	CD: 90 dB, 1 kHz (EIAJ)
Dynamic range	DVD linear PCM: 85 dB (EIAJ), (2 kHz, -60 dBFS) CD: 85 dB (EIAJ)
Overall harmonic distortion ratio	CD:0.005% or less (EIAJ)
Operating temperature	5 °C to 40 °C
Storage temperature	-20 °C to 55 °C
Power supply	100 V to 240 V AC, 50/60 Hz
Power consumption	20 W (0 W when switched off)
Dimensions	430 x 77 x 291 mm(W x H x D)
Weight	3 kg

Specification are subject to change without notice.
Weight and dimensions are approximate.

Digital Output

- The digital output format (optical or coaxial) used in this DVD player is linear PCM audio sampling at 44.1 kHz or 48 kHz. Linear PCM sound for DVD video discs sampled at 96 kHz cannot be output digitally. Check the disc jacket-for information on the audio sampling used.

Before Calling Service

The following problems do not always denote a broken DVD player.
Perform the checks listed below before calling service.

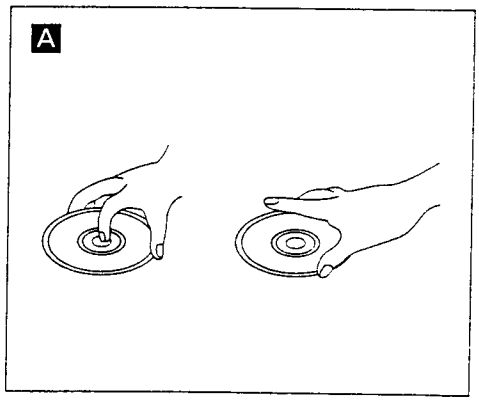
Problem	Suggested Solution
• No power	• Is the power cord firmly plugged into the power outlet? • One of the safety mechanisms may be operating. In this event, unplug the player from the power outlet briefly and then plug it in again.
• The player is switched on but does not operate.	• Have you loaded a disc? • Is the disc unplayable? (See page 3-7) • Is there condensation in the player? (See page 3)
• The playback image does not appear.	• Are the video and audio cords connected correctly? • Is the disc scratched? (See page 6) • Is the disc dirty? (See page 6 and 34) • Is the disc loaded upside down? • Is the input selector on the TV set to "VIDEO" or "AV"? • Is the audio equipment switched on and are all the components connected properly? (Refer to the manuals for your audio equipment.)
• The remote controller does not work.	• Are the batteries loaded correctly? • Are the batteries flat? • Is the signal emitter on the remote controller pointing at the player? • Is the remote controller too far from the player, or is there any obstacle between the remote controller and the player?
• There is no sound when you connect the player to your digital audio equipment. • The audio volume is too low when you connect the player to a TV or to stereo (2ch) audio equipment.	• In SETUP, is the AUDIO OUT setting wrong"? (See page 15) • Is the volume of audio output set too low? (See page 28) • Is the Mute function set to "ON"? (See page 28)
• The sound is not Dolby Digital.	• Is the disc you are playing recorded in Dolby Digital?
• The image and sound are garbled.	• Is the disc scratched? (See page 6 and 34) • Are vibrations from the speakers affecting the player?

This unit is equipped with a microprocessor. Its performance could be adversely affected by external electrical noise or interference. If this should happen, unplug the DVD player and plug it in again after a few minutes.

Disc Handling and Maintenance

Handling Precautions

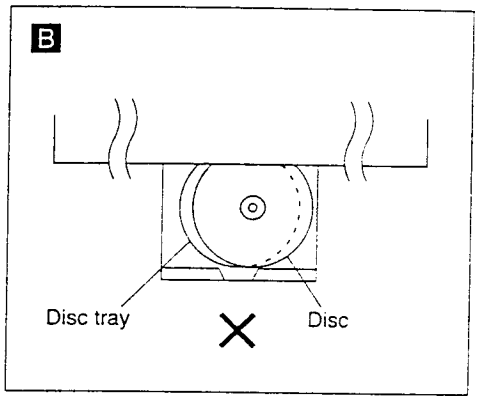
- Hold the disc by the edges so the surface will not be soiled with fingerprints. (A)
- Fingerprints, dirt and scratches can cause skipping and distortion.
- Do not write on the label side with a ball-point pen or other writing utensils.
- Do not use record clearing sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Be careful not to drop or bend the disc.
- Do not install more than 1 disc on the disc tray.
- Do not try to close the disc tray when the disc is not installed properly. (B)
- Be sure to store the disc in its exclusive case when not in use. Then store upright.
- Do not stick paper or adhesive labels to the disc.



If the Surface is Soiled (C)

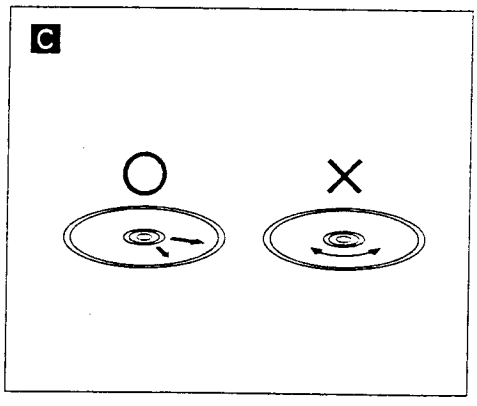
Wipe gently with a soft, damp (water only) cloth.
When wiping discs, always move the cloth from the center hold toward the outer edge.
(If you wipe the discs using a circular motion, circular scratches are likely to occur, which will cause noise.)

> If the playing surface of a disc is soiled or scratched, the player may decide that the disc is incompatible and eject the disc tray, or it may fail to play the disc correctly. Wipe any soiling off the playing surface with a soft cloth.



If the Disc is Brought from a Cold to a Warm Environment, Moisture may form on the disc.

Wipe this moisture off with a soft, dry, lint-free cloth before using the disc.



Improper Disc Storage

You can damage discs if you store them in the following places.

- Areas exposed to direct sunlight
- Humid or dusty areas
- Areas directly exposed to a heat outlet or heating appliance

Maintenance

- Be sure to turn the unit off and disconnect the AC power cord before maintaining the unit.
- Wipe this unit with a dry soft cloth.
- If the surfaces are extremely dirty, wipe clean with a cloth which has been dipped in a weak soap-and-water solution and wrung out thoroughly and then wipe again with a dry cloth.
- Never use alcohol, benzine, thinner, cleaning fluid or other chemicals. And do not use compressed air to remove dust.